Agricultural researches

†*399. SHRI RAM JETHMALANI:
SHRI RAJIV RANJAN SINGH 'LALAN':

Will the Minister of AGRICULTURE be pleased to state:

(a) whether it is a fact that there has been a declining trend in agricultural research in the country during the past few years;

(b) if not, the respective number of successful agricultural researches during 1999, 2000 and 2001; and

(c) the names of foodgrains to which these researches were related?

THE MINISTER OF AGRICULTURE (SHRI AJIT SINGH): (a) No, Sir.

(b) During the past three years, that is, 1999, 2000 and 2001, and a total of 212 improved varieties of various food crops, including cereals, millets, small millets and pulses, have been released. These include both Central and State-level released varieties. In terms of different food crops, the number of varieties released in rice is 68, in wheat 20, in barley 6, in maize 28, in sorghum 23, in bajra 16, in small millets 19 and in pulse crops 32. In addition, 31 varieties have been released in various forage crops. So far, a total of 602 exploration missions were undertaken resulting in the assemblage of over 1,40,000 accessions. About 1,20,000 accessions were characterised. The genebank holding has also gone up to over 2,22,000 accessions.

With the launch of the NATP Project on Plan Bio-diversity, in the time span of about three years, a total of 865 exploration missions have been undertaken and 55,189 germplasm samples were collected. More than 40,000 new accessions have characterised/evaluated.

DNA Fingerprinting was initiated in wheat, rice, barley and sesame, other vegetable and fruit varieties. Complete protocol for RAPD analysis were developed in all the above crops. So far, 266 varieties of cereals, 47 varieties of millets, 97 varieties of pulses, 162 varieties

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†Original notice of the question was received in Hindi.

of oilseeds, 32 varieties of cotton, 66 varieties of vegetables and 429 other varieties have been fingerprinted.

(c) Details of the crop/group-wise improved varieties released for the three years, 1999, 2000 and 2001, are given in Statement enclosed.

Statement

Research done and technologies generated in various foodgrains during the years 1999, 2000 and 2001

Number and list of Varieties/Hybrids

Crop/Year	Varieties/Hybrids released	Number
1	2	3
RICE		
1999	V.L.Dhan 81, Pooja, CSR-13, CSR-27, ADRH-4*, ADT-43*, TKM-11*, Vegad Dhan*, WGL-3962*, Garjagi*, Leimaphou*, Akutphou*, Hybrids: CORH-2*, Pant Sankar Dhan-1*, Narendra Sankar Dhan-2*	15
2000	Vivek Dhan-62, 6201(PA-103), Narendra Usar-8*, Karnataka Hill*, Paddy-5 (KHP-5)*, Hema vathi (WR-4107)*, Sravani (NLR-33359)*, Somasita (NLR-33841)*, HKR-46*, Maruteru Sannalu IET 14348*, MTU 1010*, Bharani (NLR 30491)*, Deepti (MTU-4870)*, RGL-2537*, Vasundhara (RGL 2538)*, Early Samba (RNRM7)*, Surya (BPT 4358)*, Co-47 (IET 14298)*, Py-6*, Sunil*, Sudhir (IET—10543)*, Neeraja (IET-11865)*, Bhagirathi (IET 11272)*, Mahanandra*, Sashi*, Shatabdhi (IET-4786)*, PNR-519*, Sahyadri*, ADT-44*, Parag-401*, Swasthi (NLR-33057)	31

1	2	3
2001	Pantdhan-16, Vivek Dhan 82, Yamini, Krishna Hamsa Vasumati, Pusa Sugandh-2, Pusa Sugandh-3, HR 120 (Hybrid), Pusa RH-10 (Hybrid), PR 113*, PR114*, PR115*, PR116*, Hassan Sarai*, Narendra Usar 3*, Bamleshwari*, Maruteru Sanolur, Danteshwari*, Hemavati*, Durga*, KHP5*, Palam Dhan*, Hasan Serai*	22
	TOTAL :	68
WHEAT		
1999	Malav Shati (HI-8498), Maviya Wheat-468 (HUW-468), Shresth (HD-2687), UP,-2425, UP-2382*	5
2000	KRL-19, PBW-396, PBW-443, HD-4672, K-9644, HW-2044, HI-1454*, HI-1418*, BW-1008*	9
2001	Malviya Wheat 510, HD2733, Gangotri 9162*, Halna*, Prasad*, GW-1139(d)*	6
	TOTAL :	20
BARLEY		
1999	Harit (HBL-276)	1
2000	RD-2552, NDR-209*, NDV-940	3
2001	Narmada, Priti*	2
	TOTAL	6
MAIZE		
1999	32A09, PRO312 (4642), PRO316 (4210), Gaurav, PAC738 (AH 738), PAC776, JH-3189, Vivek Hybrid-4 (FH3049), Bio 9637*, JM-12* COBC-1*	11

1	2	3
2000	Amar (D-941), JH-3459, Makka-3 (AH-58), FH-3077, JKMH-175, Kohinoor Hybrid, Vivek Hybrid-9, NAC-6004*, HKH-1082*, HKH-1071*, Vivek Hybrid-5*	11
2001	Seed bc 740, Arawali Makka 1, Kohinoor, Shaktiman-1, Shaktiman-2, Gujarat Makai 4*	6
	TOTAL:	28
SORGHUM		
1999	JKSH-22, CSH-17, Safed Moti, Pant Chari-5, Jawahar Jowar 1041*, GJ-41*, CO-27*, GJ-41, CO27*, PSH-1*	10
2000	CSV-216, SPH-1010R, Jenna-3 (NTJ-3)*, SPH-981*, RSLC-282 (Maulee)*, Parbhani Sweta *	6
2001	CSH 19 R, CSH 18, SPW 840*, Paiyur-2*, CO(s)28*, CO(Fs) 29*, Adilabad Sorghum Hybrid-1*	7
	TOTAL:	23
PEARL MILLET		
1999	Pusa 605, JBV 2, Nandi 32, Nandi 8, Pusa 415, MP 334, MLB 4504	7
2000	Pro-agro 9443, GICKV 96752	2
2001	Nandi 35, MP 383, Pro-agro 9445, RHD 121, PB 112, COH (LU)8*, AIMP-92901*	7
	TOTAL:	16
SMALL MILLETS: Finger Millet, Foxtail Millet, Barnyard Millet, Proso Millet, Little Millet, Kodo Millet		
1999	Pant Setaria-4, KK-1*, Maruthi, Bhaiarabi (BH-913), Maruthi*, PS-4	6

1	2	3
2000	GPU-26*, Meera (SR-16), VL Madria-172 (VL-172), CPUP-3*, Tarini, Paiyur-2*, Jawahar Kodo-155, KOLAB,	7
2001	Chilika, GPU 45, SR-16, VL Madira-181, GPUP-8, Jawahar Kodo 48	6
	TOTAL:	19
PULSES:	Chickpea, Pigeonpea, Mungbean, Urbean, Lentil, Guar Fieldpea, Mothbean, Horsegram, Guar	
1999	GCP 101 (Gujarat Gram-1), Pusa 1003 (Kabuli), BDG-72 (Pusa Pragati), BG 1053 (Pusa Chamatkar), JG-11, KAK 2, MA-3 (Malviya Vikalp), HUM-1, TU 94-2, IPU 94-1 (Uttara), KU 92-1 (Azad Urd-1), RBU 38 (Barkha), WBG 26, JL 3, HUDP 15 (Malviya Matar 15), RMO-225, RMO-96, CAZRI Moth-1, AK-21, Paiyur-2, RGC-1002, RGC-986	22
2000	GCP 105, SAKI 9516, PBM 2, Pusa 9531, Pusa Bold-1 (Vishal), IPL 81 (Noori), DDR 23	7
2001	Ganga-8, Shekhar-2 (KU-300), Pusa Panna (DDR-27)	3
	TOTAL:	32
TOTAL OF FOOD CROPS		212

1	2	3
FORAGE	CROPS: Berseem, Oats, Lucerne, Sorghum (Forage), Bajra (Forage), Cowpea (Forage), Guar (Forage), Napier Bajra Hybrid, Guinea Grass, Dinanath Grass, Anjab Grass, Yellow Anjan	
1999	BL-22, Pusa-605 (MH-564), Nandi-8 (MH-741), JBV-2, Nandi-32, Pusa-415, Pusa composite 334, MLBH-44, Pusa Sampada, UPC-9202, GC-3*, GC-4*, RGC-986, RGC-1003, Bundel guar-3, RGC-1002, PGG-518*	17
2000	Bundel Berseem-3, Safed Moti, Co2, 7688 (MH-795), PB-106, RHB-90 (MH-463)*, HHB-94*, Haryana Composite-10*, KBC-2*, Co-2*	10
2001	COFS 29, Bundel Guar-3, PBN233, PGG-616	4
	TOTAL:	31

*State Releases

Food processing projects of Andhra Pradesh

*400. DR. DASARI NARAYANA RAO: Will the Minister of FOOD PROCESSING INDUSTRIES be pleased to state:

(a) whether Government have received proposals for food processing projects from Andhra Pradesh, during the last three years;

(b) if so, the details thereof, year-wise;

(c) the financial assistance released for these projects to the State under Government's Plan Schemes; and

(d) what is the present status of these projects?

THE MINISTER OF STATE OF THE MINISTRY OF FOOD PROCESSING INDUSTRIES (PROF. CHAMAN LAL GUPTA): (a) to (d) Yes, Sir.

The Ministry considered and approved nine proposals in 1999-2000, three proposals in 2000-2001 and one proposal in 2001-2002.

A total financial assistance of Rs. 564.98 lakhs was released during the last three years. The present status of these assisted projects is given in Statement.